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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/606,198

06/24/2003

Eiji Mayumi

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4350

26021

7590

03/25/2005

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EXAMINER

COMAS, YAHVEH

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/606,198	Applicant(s) MAYUMI	
	Examiner Yahveh Comas	Art Unit 2834	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 8-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsushita et al. U.S. Patent No. 4,841,190.

Matsushita discloses a ring shaped stator core (13 and 14) having a pole teeth (15) erected from an inner circumferential edge portion, a coil (20) winding wound around the pole teeth, and a terminal pin part (25) to which a terminal end of the coil winding is wound, wherein the terminal pin part is integrally formed and extended from the stator core and an entire surface of at least the terminal pin of the stator core is covered with an insulating layer (40). Also the entire inner surface of the stator core is covered with the insulating layer (40) (see fig 2). The outer surface of the pole teeth of the stator core (13 and 14) is covered with the insulating layer (40), and the coil (20) winding is directly wound around the insulating layer on the pole teeth.

Claims 5-7, 18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kato U.S. Patent No. 4,924,124.

Kato discloses a ring shaped stator core (1) having a pole teeth (2) erected from an inner circumferential edge portion, a coil (17) winding wound around the pole teeth, wherein the stator is covered with an insulating layer (13) on at least the entire surface

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of the pole teeth and the coil winding is directly wound on the insulating layer around the pole teeth. The outer surface of the pole teeth of the stator core (1) is covered with the insulating layer (13), and the coil (17) winding is directly wound around the insulating layer on the pole teeth. Also a terminal pin is integrally formed with the stator core and is formed so that its tip end side (11) is wider or thicker than its base end side.

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kobayashi et al. U.S. Patent No. 5,239,742.

Kobayashi discloses a method of manufacturing a step motor comprising forming a stator core (1), covering an entire surface of at least pole teeth (31) of the stator core with an insulator layer (6), and forming a coil winding directly on the insulating layer (6) around the pole teeth of the stator core. Also covering the entire surface of the stator core with the insulating layer (6) and a terminal pin (13) part of the stator core (1) having tip end side wider than its base end side (see fig. 4 and column 6, lines 18-27).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4, 12, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushita et al. U.S. Patent No. 4,841,190 in view of Kato U.S. Patent No. 4,924,124.

Matsushita discloses the claimed invention except said terminal pin having a tip end side is wider or thicker than its base end side. However, Kato discloses a terminal pin having a tip end side (11) is wider or thicker than its base end side for preventing terminal for failing off (column 3 lines 10-12).

Therefore it would have been obvious to one having skill in the art at the time the invention was made to modify Matsushita's invention and provide a tip end side is wider than its base end side since that would had been desirable in order prevent the terminal for failing off.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yahveh Comas whose telephone number is (571)272-2020. The examiner can normally be reached on 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YC



BURTON S. MULLINS  
PRIMARY EXAMINER